



AI TEM

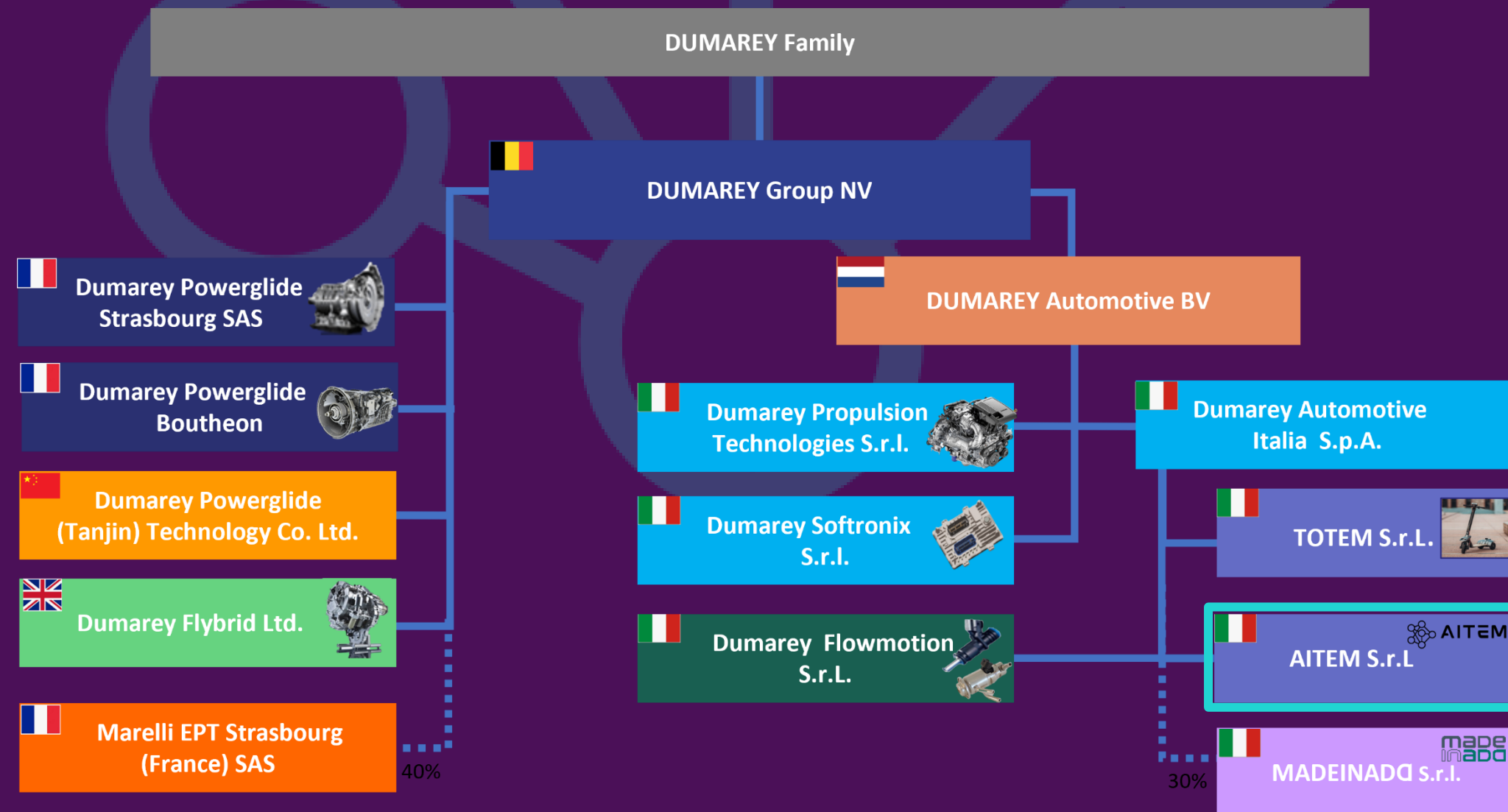
ARTIFICIAL INTELLIGENCE SOLUTIONS

Who's AITEM...?

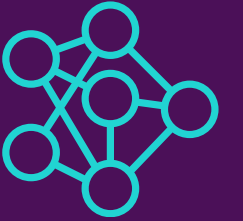
AITEM is a **DUMAREY Automotive Italia** spin-off born in 2020 that develops AI software with cutting-edge technology and innovation.

The Dumarey Group is a developer and provider of world-class engines and transmissions, energy storage, control systems, sub-assemblies and components, with proven capabilities to provide integration for small, medium and large-run applications

DUMAREY



Our Unique Selling Proposition



We **select** our customers building on **our assets** where we are **better** than competitors



Image Analysis and Computer Vision

Our patent **need 10x less** images/videos **than competitors** to reach 90% accuracy (AITEM developed a camera based collision alert with 0.95% error)



Generative AI and LLM

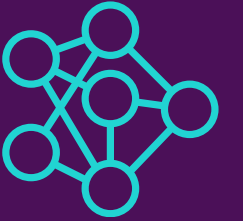
We are better in specific fields where **we master the discipline** (like manufacturing, industrial processes, automotive) and we leverage our **patented parsing** technology



Deep Learning & Data Analytics

We **managed data** from fleets/plants of a **major car maker**, thus know what is required in production when a failure may cost millions

Where **AIEM** can help?



Conducting consultations
to understand
customer's problem



Providing customer
with a **tailor-made**
solution

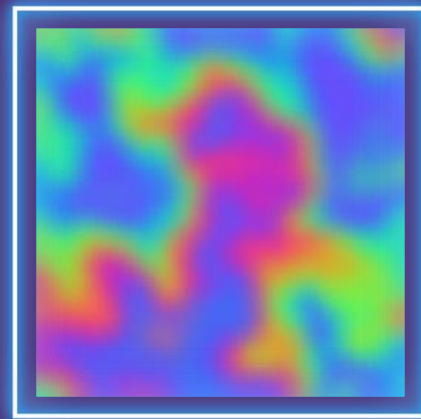
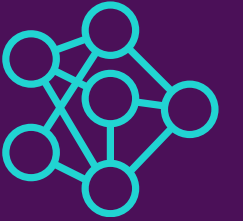


Helping the customer
to **achieve its goals** in a
more efficient and effective way

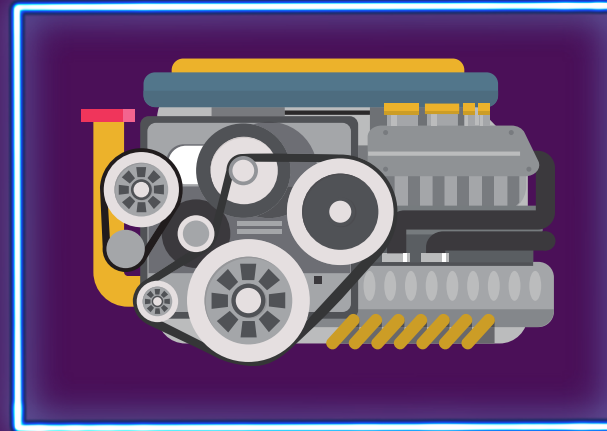
We have the **speed of startup**, but our team has the **legacy experience** of a multinational, providing customers with truly **production-oriented products**.

ML and statistical approach

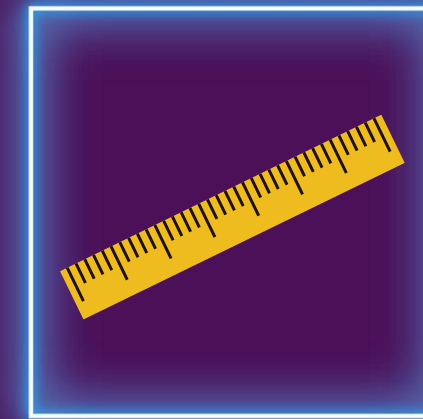
for Defect analysis on steel products



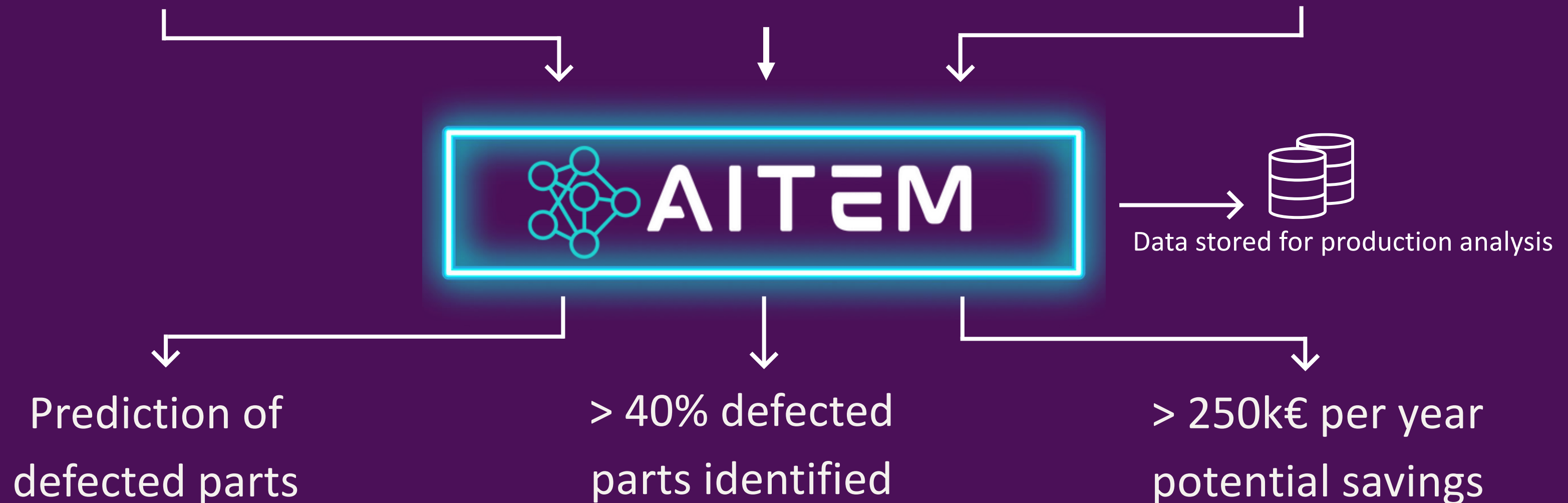
Thermal camera



Casting machine

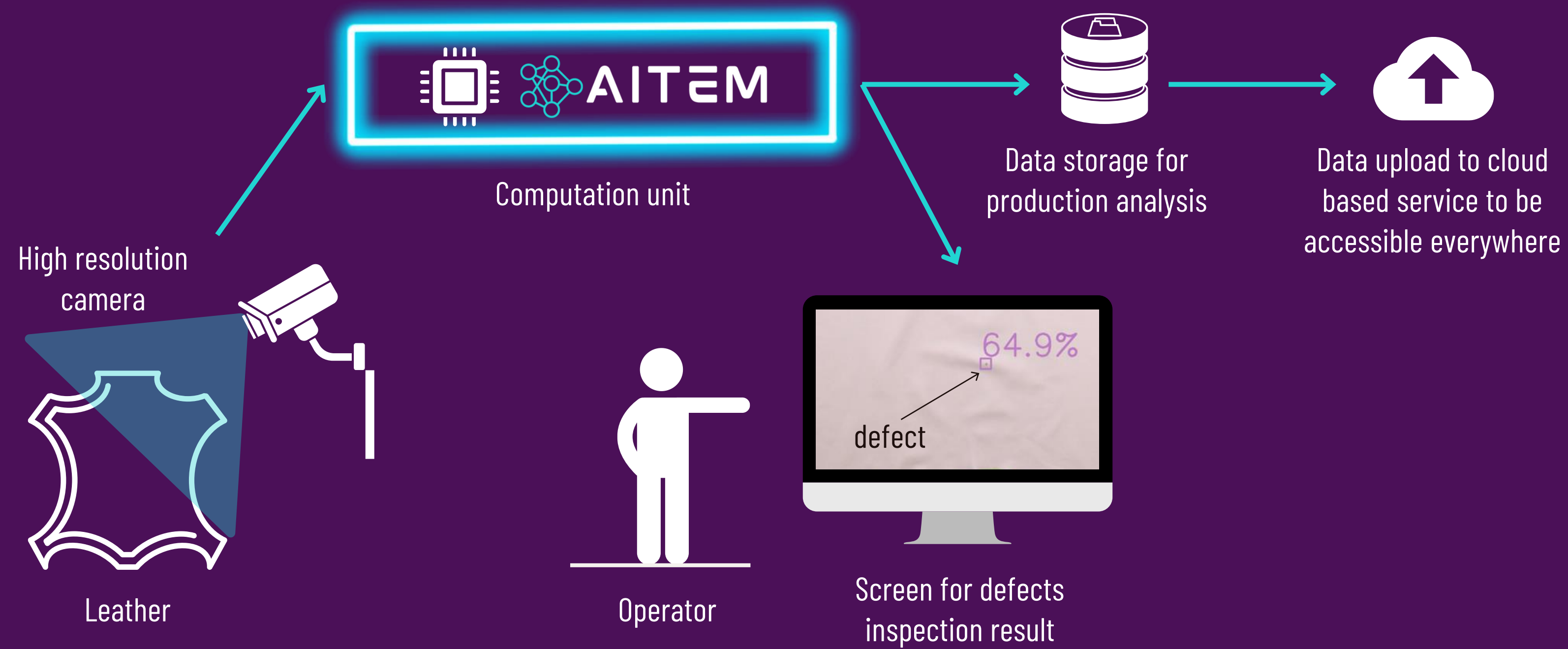


Dimensional check



AI image analysis

for Visual inspection of textile and leather products



Predictive maintenance in automotive fleets applications



DATA COLLECTION

Collect and monitor assets performance from the field for data analysis and elaboration

DATA ELABORATION

Cloud based solution able to detect current state of health (SoH) and performance of assets using remote measures (IoT) and predict high impacting failures for multiple systems



RESULTS

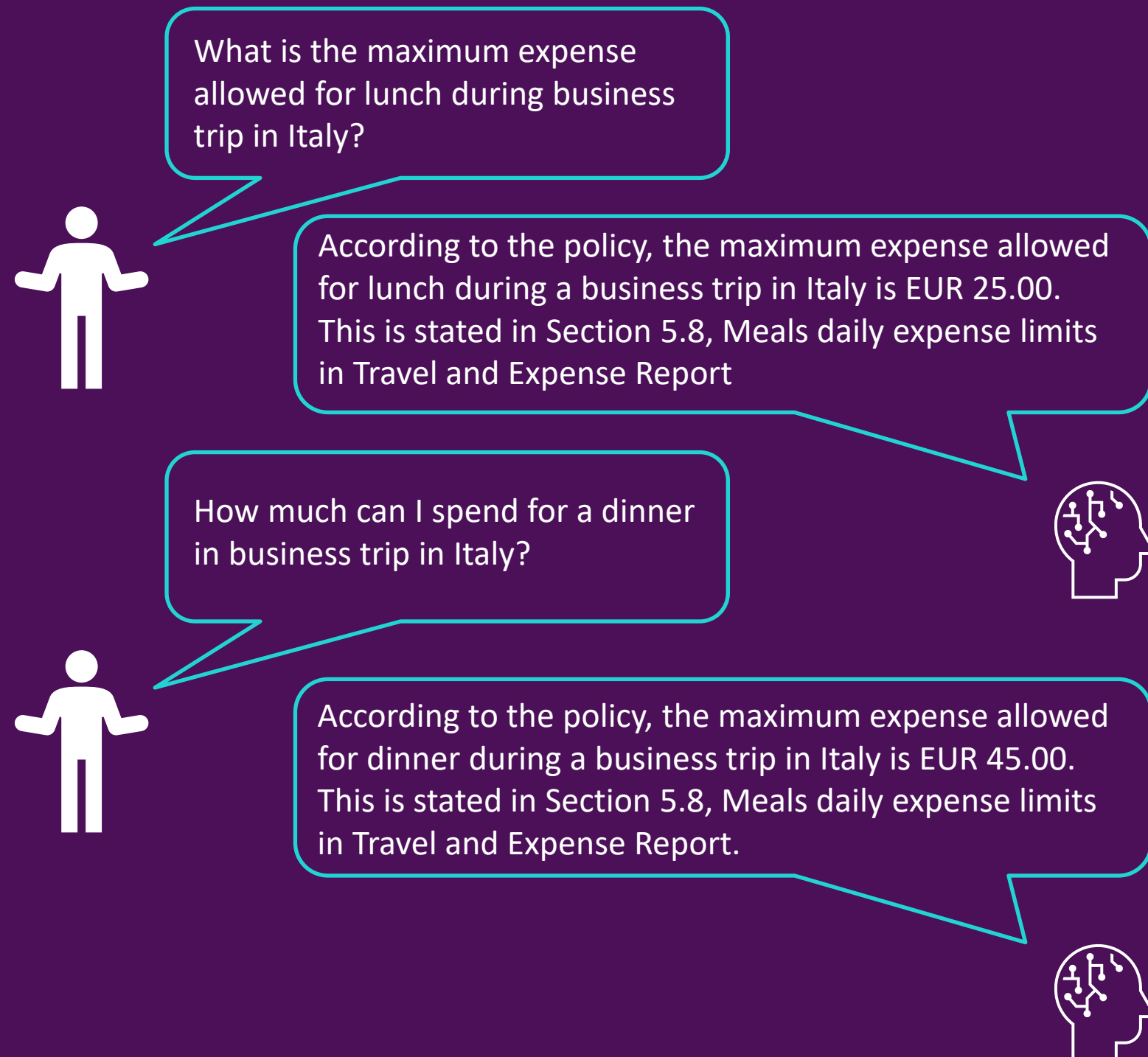
Reduced downtime,
damages, safety risk

Optimized maintenance in
automotive applications

80% predicted failures causing
service disruption, with <10%
error in SoH detection

LLM-Enhanced AI Copilot

LLMs use advanced artificial intelligence to understand and respond to questions accurately and quickly.



Benefits

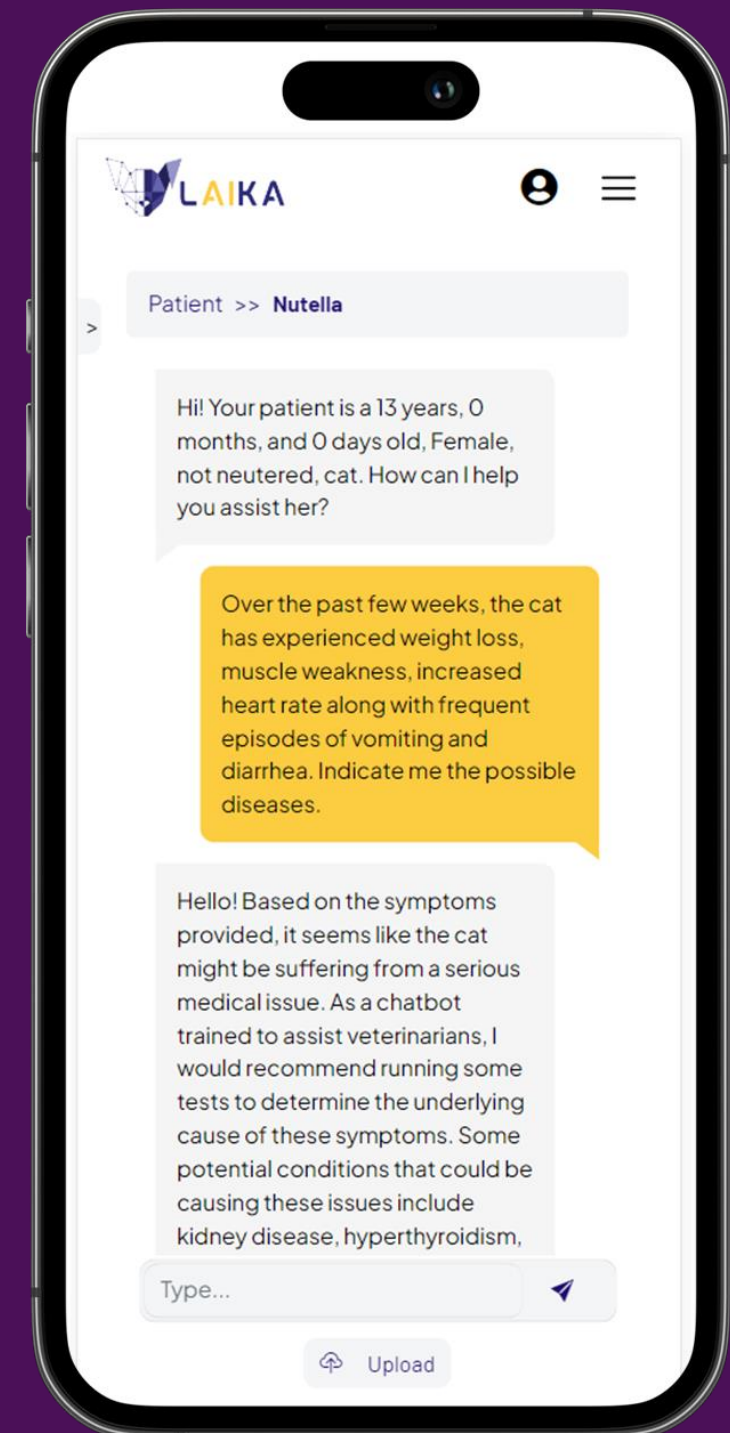
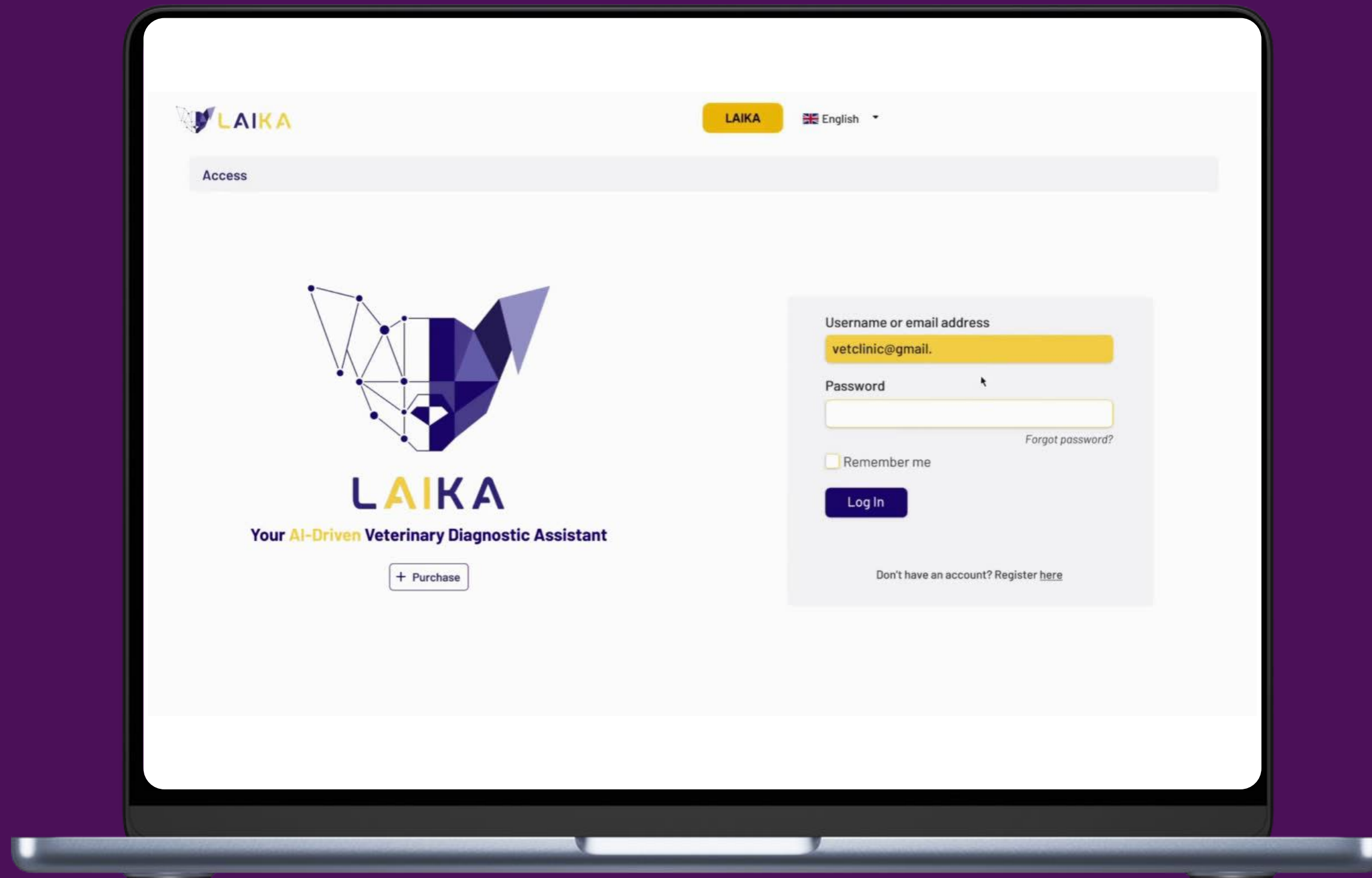
Quick and accurate responses

Ability to process large amounts of information

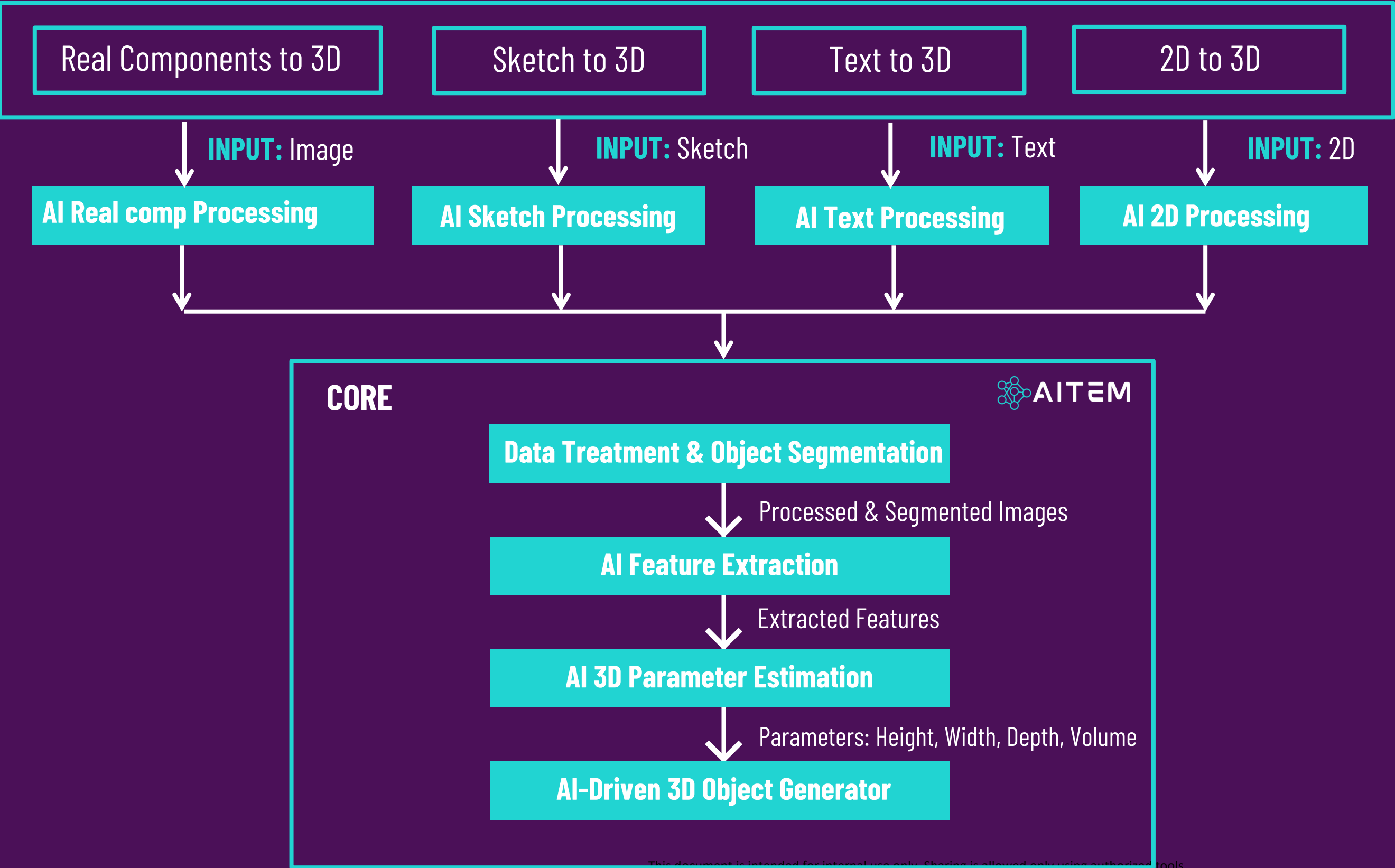
Improved company productivity

LAIKA

the AI-Driven Veterinary Diagnostic Assistant



AI-Driven 3D Model Generator

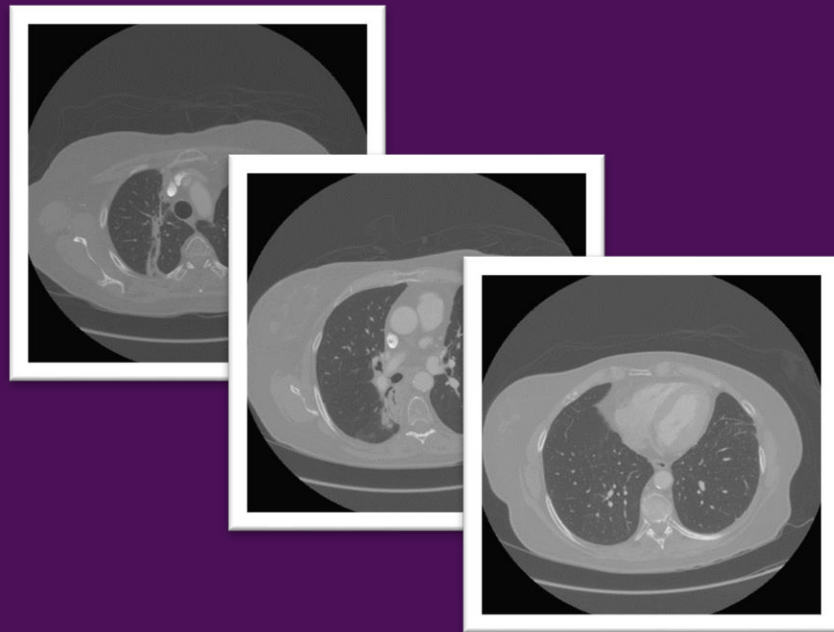
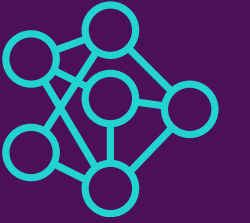


Input Image from mobile



3D model

Segment anatomical regions based on medical imaging



Benefits

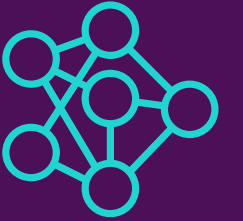
Diagnostic improvement

Professional training

Surgical planning

Predictive Human being modeling

based on physiological monitoring



Focusing on predictive human being modeling based on physiological monitoring forecasting motion sickness, onset sleep, stress monitoring, emergency manager



Development of Human factor technologies to improve Human-Machine Interface and Autonomous Vehicle adoption



Interior sensing technology development and integration



Wellness/Health monitoring

Motion sickness prediction model

Onset sleep detection prediction model

Analytics



Emergency manager
(e.g. stroke)

Stress detection

Enhanced comfort





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